WHAT IS CLAIMED IS:

1.   A liquid crystal display, comprising:

a liquid crystal panel including a plurality of gate lines, a plurality of data lines perpendicularly intersecting the gate lines, a plurality of liquid crystal capacitors coupled to a previous gate line and having liquid crystals between pixel electrodes and a common electrode, and a plurality of thin film transistors connected to the pixel electrodes of the liquid crystal capacitors;

a timing controller receiving image signals and synchronization signals, and generating control signals;

a gate driver sequentially applying a stepped-wave pattern gate voltage to a plurality of the gate lines, the stepped-wave pattern gate voltage including a first interval for converting a pixel grayscale level of a subsequent gate line formed in a previous frame to a first grayscale level, and a second interval for forming a path through which data voltage is applied by controlling the thin film transistors to on; and

a data driver for applying a data voltage of a second grayscale level supplied to the liquid crystal capacitors of the liquid crystal panel according to the control signals of the timing controller.

2.   The liquid crystal display of claim 1, wherein the first grayscale level is a black grayscale level when in a normally white mode.

3.   The liquid crystal display of claim 1, wherein the first grayscale level is a white grayscale level when in a normally black mode.

4.   The liquid crystal display of claim 1, wherein the gate voltage further

includes a third interval for applying a voltage of the same polarity as the data voltage during a predetermined interval before the first interval and following the turning off of the thin film transistors.

5. A drive method for a liquid crystal display, the liquid crystal display including: a liquid crystal panel having a plurality of gate lines, a plurality of data lines perpendicularly intersecting the gate lines, a plurality of liquid crystal capacitors coupled to a previous gate line and having liquid crystals between pixel electrodes and a common electrode, and a plurality of thin film transistors connected to the pixel electrodes of the liquid crystal capacitors; a gate driver for generating a signal supplied to gates of the thin film transistors; and a data driver for generating a data voltage supplied to the liquid crystal capacitors of the liquid crystal panel, the method comprising the steps of:

sequentially applying a stepped-wave pattern gate voltage to the gate lines, the stepped-wave pattern gate voltage including a first interval for converting a pixel grayscale level of a subsequent gate line formed in a previous frame to a first grayscale level, and a second interval for forming a path through which data voltage is applied by controlling the thin film transistors to on; and

applying a data voltage charged in the liquid crystal capacitors to the liquid crystal panel.

6. The method of claim 5, wherein the gate voltage further includes a third interval for applying a voltage of the same polarity as the data voltage during a predetermined interval before the first interval and following the turning off of the thin film transistors.

7.   The method of claim 6, wherein the gate voltage in the first interval is identical in polarity to a polarity of the gate voltage in the third interval.

8.   The method of claim 6, wherein the gate voltage in the first interval is opposite in polarity to a polarity of the gate voltage in the third interval.

9.   The method of claim 6, wherein the gate voltage in the third interval is ±3V to ±10V relative to a gate-off voltage.

10.   The method of claim 6, wherein the third interval starts at a point where the second interval ends, and converts to a gate-off voltage at a position where the second interval doubles.

11.   The method of claim 5, wherein the first grayscale level is a white grayscale level when in a normally black mode.

12.   The method of claim 5, wherein the first grayscale level is a black grayscale level when in a normally white mode.

13.   The method of claim 5, wherein the gate voltage in the first interval is ±3V to ±10V relative to a gate-off voltage.

14.   The method of claim 5, wherein a starting point of the first interval is within 0.5ms – 5ms from a starting point of the second interval.